

1

*Uses of D-Xylose, the Esters Thereof and Oligosaccharides Containing Xylose For Improving the Functionality of Epidermal Cells*

WO9924009 20 May 1999

LVMH Recherche

Abstract:

The invention concerns uses of d-xylose, the esters thereof and oligosaccharides containing D-xylose for improving the functionality of epidermal cells. More particularly, it concerns the use of a compound selected among the group consisting of D-xylose, its esters, in particular fatty acid esters or D-galacturonic acid ester, and oligosaccharides containing D-xylose, as cosmetic or dermatological agent for stimulating synthesis and/or secretion of proteoglycans (PG) and/or glycosaminoglycans (GAG) by keratinocytes, in particular keratinocytes of the epidermis and of tissues with a keratinocyte coating compartment such as the mucous membranes, in particular the lips, and the skin appendages, in particular hair follicles, said agent being incorporated in a cosmetic or pharmaceutical composition.

2

*Cosmetics containing sugar-bound poly(amino acid)*

JP 08217656 A2 19960827

Pola Kasei Kogyo Kk, Japan

Abstract:

A cosmetic contg. sugar-bound poly(amino acid) such as polylysine, polyornithine, and poly(glutamic acid) holds moisture and is useful for skin and hair conditioning. The sugar may be glycerose, arabinose, xylose, glucose, galactose, mannose, and fructose.

3

*Cosmetics containing agar oligosaccharides for skin and hair*

JP08151313 June 11, 1996

Kanebo Ltd., Japan

The title cosmetics are safe, have antiseptic ability, and show moisturizing effect and no stickiness. A lotion was prepd. from squalane 5.0, glycerin trioctanoate 1.0, polyoxyethylene hydrogenated castor oil 0.5, agar oligosaccharides 1.0, 1,3-butylene glycol 5.0, EtOH 5.0, and H<sub>2</sub>O to 100 wt.%.  
Note: D-xylose is indexed for this record.

4

*Xylobiose-containing cosmetic composition*

JP 040306212 March 13, 1992

US5660838 August 26, 1997

EP459462B1 March 13, 1996

CA2043625 December 01, 1991

Suntory Ltd., Japan

Abstract (Derwent):

Xylobiose (I) at 0.0001-20 %, preferably 0.1-10 %, is incorporated into cosmetic compns. to provide enhanced moisture retention and to reduce excessive roughness and dryness of the skin and hair. I is also effective in preventing the occurrence of stickiness, color change and malodor in the skin preps. Thus, I was prepd. from a plant-derived xylan by saccharification and tested for its moisture-retaining capability. A lotion contained the xylan-saccharified product (contg. greater than or equal to 95 % I) 1.0, propylene glycol 1.0, citric acid 0.2, 95 % EtOH 10.0, perfume q.s., POE lauryl ether 0.5 %, and water balance.

Abstract (US5660838)

Xylobiose-containing skin preparations for external use are disclosed. Skin preparations for external use into which xylobiose may be incorporated include cosmetics such as clear lotions, milky lotions, packs and lip treatments, drugs or quasidugs such as ointments and cataplasms, hair-care products such as rinses and hair conditions, and detergents such as hair shampoos and body shampoos. Xylobiose is typically contained in an amount of 0.0001-20

wt %, preferably 0.1-10 wt %, of the total amount of the skin preparation on a dry solids basis. The incorporation of xylobiose is effective not only in preventing the occurrence of stickiness, color change and malodor in the skin preparations but also in providing enhanced moisture retention and reducing excessive roughness and dryness of the skin and hair.

**5**

***Hair split-end regeneration composition***

US4900545 February 13, 1990

Henkel

**Abstract:**

A composition for the regeneration of hair split-ends in an aqueous/alcoholic solution or emulsion containing panthenol, at least one mono- or di-saccharide, and optionally polyvinylpyrrolidone and/or a triol; as well as a method for using such composition.

Note: xylose is mentioned as a possible saccharide